

1/2

ATGAGCCTGATCGCCTCCGACCACTTCCGCATCGTTGTGCGCCTCGGCAAGAGCGGCATG  
MetSerLeuIleAlaSerAspHisPheArgIleValValGlyLeuGlyLysSerGlyMet

TCCCTGGTGGCTACCTGGCGCGCCGCGGCTTGCCTTTCGCCGTGGTCGATACCCGAGAG  
SerLeuValArgTyrLeuAlaArgArgGlyLeuProPheAlaValValAspThrArgGlu

AACCCGCCGGAGCTGGCCACCCTGCGTGCCAGTATCCGCAGGTGGAAGTGCGTTGCGGC  
AsnProProGluLeuAlaThrLeuArgAlaGlnTyrProGlnValGluValArgCysGly

GAACTCGACGCCGAGTTCCTCTGCTCCGCCCGGAACTCTATGTCAGCCCCGGCTTGTCG  
GluLeuAspAlaGluPheLeuCysSerAlaArgGluLeuTyrValSerProGlyLeuSer

CTGCGCACCCCTGCGCTGGTACAGGCCGCGGAAAGGCGTGCGCATCTCCGGTGACATC  
LeuArgThrProAlaLeuValGlnAlaAlaAlaLysGlyValArgIleSerGlyAspIle

GATCTCTTCGCCCCGCGAGGCGAAGGCCCGATCGTCGCCATCACCGGTTCCAACGCGAAG  
AspLeuPheAlaArgGluAlaLysAlaProIleValAlaIleThrGlySerAsnAlaLys

AGCACCGTGACCACCCTGGTGGGCGAAATGGCGGTGGCCGCGGACAAGCGTGTCGCCGTC  
SerThrValThrThrLeuValGlyGluMetAlaValAlaAlaAspLysArgValAlaVal

GGCGGCAACCTCGGCACCCCGGCGCTCGACCTGCTGGCCGACGACATCGAGCTGTACGTG  
GlyGlyAsnLeuGlyThrProAlaLeuAspLeuLeuAlaAspAspIleGluLeuTyrVal

TTGGAGCTGTCGAGCTTCCAGCTGGAAACCTGCGATCGCCTCAACGCCGAGGTGGCGACC  
LeuGluLeuSerSerPheGlnLeuGluThrCysAspArgLeuAsnAlaGluValAlaThr

GTGCTGAACGTCAGCGAAGACCATATGGATCGCTACGACGGCATGGCTGACTACCACCTG  
ValLeuAsnValSerGluAspHisMetAspArgTyrAspGlyMetAlaAspTyrHisLeu

GCCAAGCACCGGATCTTCCGCGGTGCCCGCCAGGTGCTGGTGAATCGCGCCGATGCCCTG  
AlaLysHisArgIlePheArgGlyAlaArgGlnValValValAsnArgAlaAspAlaLeu

(SEQ ID NO:1, positions 51-710)

(SEQ ID NO:2, positions 1-220)

FIG. 1A

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ACCCGACCGCTGATCGCCGATACCGTGCCGTGCTGGTCGTTCCGGCCTGAACAAGCCGGAC  
ThrArgProLeuIleAlaAspThrValProCysTrpSerPheGlyLeuAsnLysProAsp

TTCAAGGCTTTCGGCCTGATCGAGGAAGACGGCCAGAAGTGGCTGGCGTTCCAGTTCGAC  
PheLysAlaPheGlyLeuIleGluGluAspGlyGlnLysTrpLeuAlaPheGlnPheAsp

AAGCTGCTGCCGTTGGCGAACTGAAGATCCGTGGCGCCCACTATTCCAACGCGCTC  
LysLeuLeuProValGlyGluLeuLysIleArgGlyAlaHisAsnTyrSerAsnAlaLeu

GCCGCGCTGGCGCTGGGCCATGCGGTGCGCCTGCCGTTGACGCCATGCTCGGCGCGCTG  
AlaAlaLeuAlaLeuGlyHisAlaValGlyLeuProPheAspAlaMetLeuGlyAlaLeu

AAGGCGTTTTCCGGCCTGGCTCATCGCTGCCAGTGGGTACGCGAGCGGCAGGGCGTGAGC  
LysAlaPheSerGlyLeuAlaHisArgCysGlnTrpValArgGluArgGlnGlyValSer

TACTACGACGATTCCAAGGCCACCAACGTCGGCGCCGCCCTGGCGGCGATCGAGGGGCTG  
TyrTyrAspAspSerLysAlaThrAsnValGlyAlaAlaLeuAlaAlaIleGluGlyLeu

GGTGCCGACATCGACGGCAAGCTGGTGCTGCTCGCCGGCGGAGACGGCAAGGGCGCCGAT  
GlyAlaAspIleAspGlyLysLeuValLeuLeuAlaGlyGlyAspGlyLysGlyAlaAsp

TTCCATGACCTGCGCGAGCCGGTCGCGCGCTTCTGCCGGGCGGTGGTACTGCTTGGCCGT  
PheHisAspLeuArgGluProValAlaArgPheCysArgAlaValValLeuLeuGlyArg

GACGCCGGGCTGATTGCCAGGCACTGGGCAACGCGGTACCGCTGGTGCGCTCGCAACG  
AspAlaGlyLeuIleAlaGlnAlaLeuGlyAsnAlaValProLeuValArgValAlaThr

CTGGACGAAGCAGTCCGGCAGGCCGCGAGCTGGCCCCGGAAGGCGATGCGGTGCTGTTG  
LeuAspGluAlaValArgGlnAlaAlaGluLeuAlaArgGluGlyAspAlaValLeuLeu

TCGCCGGCCTGCGCGAGCCTGGACATGTTCAAGAACTTCGAAGAACGCGGACGCCTGTTC  
SerProAlaCysAlaSerLeuAspMetPheLysAsnPheGluGluArgGlyArgLeuPhe

GCCAAAGCCGTAGAGGAGCTAGCGTGA (SEQ ID NO:1, positions 711-1397)  
AlaLysAlaValGluGluLeuAlaEnd (SEQ ID NO:2, positions 221-448)

FIG. 1B